

7608138

tarmac rally - race

Volkswagen AER, ALL 50hp

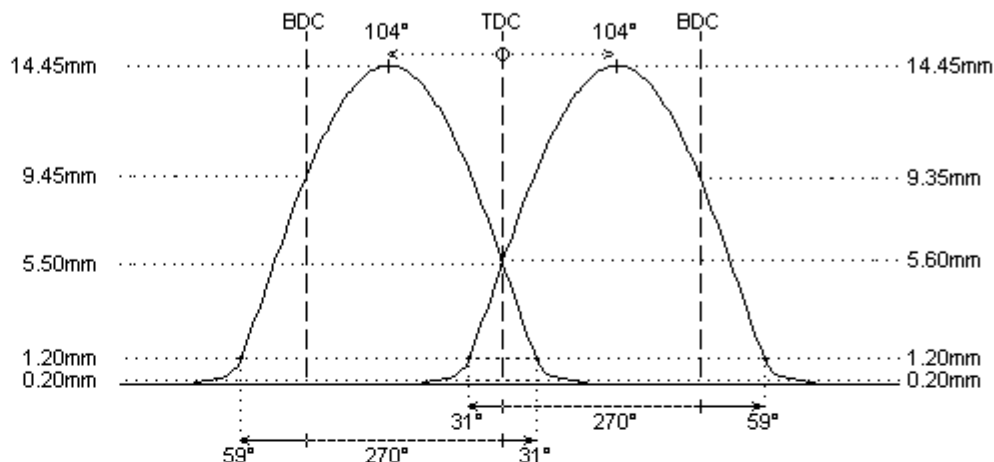
I-4cyl 1.0L 8v SOHC (DTH/DTH)



	intake	exhaust
camshaft data:		
lash ramp	: 0.20mm	0.20mm
duration @ 0.1mm	: 308°	308°
duration @ 1.0mm	: 270°	270°
valve lift	: 14.45mm	14.45mm
cam lift	:	
lobe angle	: 104°	104°
timing @ 1.0mm	: 31° / 59°	59° / 31°
valve lift @ TDC	: 5.60mm	5.50mm
parts setup:		
cam wheels :	:	:
follower :	CC005	CC005
valve lash :	TS102	TS102
valve :	: O.E.M.	: O.E.M.
valve locks :	: O.E.M.	: O.E.M.
upper retainer :	: O.E.M.	: O.E.M.
lower retainer :	: O.E.M.	: O.E.M.
exterior spring :	PAC-E92009	PAC-E92009
interior spring :	PAC-I99861	PAC-I99861
fitted load / length :	32kg @ 31.5mm	32kg @ 31.5mm
max. load / lift :	95kg @ 12.0mm	95kg @ 12.0mm

REMARKS :

- # different valve spring setups have been used in the original engines:
please double check the measurements and contact Catcams in case of doubt
- # ONLY for 7mm valves with tripple groove (MK-7H valve keepers)



REMARKS :

- # Different OEM camshafts were used in this engine family. For ordering the correct sports camshaft, please check:
 - engine reference code
 - cam reference code
 - cam lift
 - keyway position: centered between 1st and 2nd cam lobe (54°)(76061xx) OR close to 1st cam lobe (22°)(76161xx)
- Example: engine code "AER" has camshaft code "030 BG", cam lift "8.5mm" and keyway close to 1st cam lobe.
- # a) 8mm valve stem - engines untill 07/1994
use hard anodised aluminum retainers (ref. 99326) and double valve springs (ref. 902-5009) with fitted length 35-36mm
b) 7mm/0.275" valve stem engines form 08/1994 (types: AEV, ABD, ADX, AEA, ABU, AEE, AEX, AKU, AEF)
use single valve springs (ref. 902-0019) on hard anodised aluminum retainers (ref. 99376)
- # - valve clearance is to be adjusted using mechanical lash caps
- please make sure that the lash cap does not touch the valve locks !
- # FOR COMPETITION APPLICATIONS ONLY. Following details must be verified:
 - the camshafts must turn smooth in the cylinderhead, provide free travel by machining where needed
 - distance between valve seal and retainer at full lift must be 0.6mm at least
 - minimum valve spring travel of 1.0mm at full lift must be provided
 - distance between valve and piston 1.0mm (pref. 1.5mm). check 5-15° before TDC on exhaust, and after TDC on intake

ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors